

**STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM**
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast

Observer(s): Powell

River System: Sol Duc

Date: 3/2/00

Site Identifier: S-0330

WRIA: 20.0330

River Mile Location: 1.85

RB/LB: RB

Local Name: Anton Creek

Trib. to: 20.0329 (Bear Cr)

Legal Description: NE¼ Sec26 T30N R12W

County: Clallam

Habitat Type: Valley wall tributary

Landowner: (X) Federal (X) State () County () Other Government (X) Private

- Washington Dept of Natural Resources
- Various small land owners
- National Forest, USFS

Directions to site:

Starting at Forks (Tillicum Park), drive north on Highway 101 for 14.2 miles (mp 206) to Bear Creek Road. Take a left on this road and follow for 1.7 miles. The double culvert crossing is Anton Creek (S-0330).

Site Overview:

This is a large tributary system to Bear Creek. This stream offers both spawning and rearing habitat for coho. The gradient averages 2 - 3% to ~ RM 1.2. Above this point, the stream gradient moderately gains to 12% at ~ RM 1.8 where this survey was terminated. The lower gradient reach is characterized by the following: A mix alder/conifer canopy, there is some large woody debris for cover and pool formation but downstream of the road crossing, it is limited. Cover is also provided by brush and overhang. There are areas of quality spawning gravel. Coho spawning is occasionally monitored from the egress to RM 1.4. There are two moderate sized tributary (S-330L-02, S-0331), two ponds (S-330L-01, S-330R-01) that may provide additional spawning and rearing habitats within this reach. One other associated tributary (S-330L-03) may provide limited habitat. The upper reach is characterized by the following: Moderating entrenchment of the channel, an alder canopy with conifers on the side slopes, woody debris for cover and pool formation, and additional cover from overhang and large amounts of brush. This reach has spawning gravel but as the gradient gains so does the amount of cobbles and boulders in the substrate. There is one small associated pond (S-330R-02) in the lower end of this reach that may provide some off-channel habitat. An upper reach tributary (S-330R-03) may provide trout habitat.

Habitat Information:

Water source: Tributaries, springs and surface runoff

Intermittent/year-around:

- Year-around

Estimated flows (cfs): ??

Water temperatures: 7° C

Adjacent stream temperature: 7° C

Other water observations:

- There are seven associated tributaries that may provide additional spawning/rearing habitat. See individual site writeups for specific information.

Site area measurements: ☐ Indirect ☒ Direct ☐ Combination

Widths: Channel- 1.5 m - 4 m Ponds- NA Wetlands- NA

Depths: Channel- 10 cm - 60 cm Ponds- NA Wetlands- NA

Total length (includes ponds and wetlands): 2915+ m (trout habitat above end point)

Total existing habitat area (est.): 8000+ m²

Spawning area: 3000 m²

Impounded area: 0 m²

Other rearing area: 5000 m²

Spawning Habitat conditions: ☐ None ☐ Poor ☐ Fair ☒ Good ☐ Excellent**Describe spawning habitat:**

- The lower reach to the road crossing has a gradient of 2% and has areas of good spawning gravel. Woody debris and pools were lacking in this area.
- Upstream of the road to the end of the spawner survey reach (RM 1.4), the gradient slowly increases from 2 to 5%. There was quality gravel and more woody debris/pools.
- The upper reach continues to have a gravel substrate but cobbles and boulders become prominent as the gradient increases.
- The adjacent side slopes have a large amount of gravel in the soils.

Rearing habitat conditions: ☐ None ☐ Poor ☒ Fair ☐ Good ☐ Excellent

- Woody debris and associated pools are lacking in the reach downstream of the road crossing. There is a canopy of alders and conifers.
- Brush, overhang and woody debris provide cover in the mid to upper reaches.
- There are some extremely brushy areas but the canopy is primarily a mix of alders and conifers.
- In the incised section of the channel (upper reaches), alders and brush are dominant along the stream and there are conifers along the slopes. Numerous blown down alders were encountered at the end of the survey.

Describe pond and other rearing habitat:

- There are three associated ponds to this tributary: S-330L-01, S-330R-01, S-330R-02. They may provide some high water refuge and rearing opportunities.
- S-330L-02 is an associated wetland tributary in the lower reach and may provide rearing habitat.
- S-0331 is a mid reach tributary and it provides spawning and maybe some rearing opportunities.

Describe inaccessible habitat:**Describe wetland:** ☐ Bog ☐ Marsh ☐ Scrub-shrub Wetland ☐ Forested Wetland**Flooding potential:** ☐ Low ☒ Medium ☐ High

- This channel appears to have occasional flushing flows. The upper reach appears to have stable flows.

Fish Information:**Site entry condition to (20.0329):** ☐ Poor ☐ Fair ☒ Good

- There is open egress into Bear Creek.

Coho access and use:

Juvenile- ☐ Unknown ☐ None ☐ Poor ☒ Fair ☐ Good

Adult- ☐ Unknown ☐ None ☐ Poor ☒ Fair ☐ Good

- Spawner surveys are occasionally conducted from the egress to RM 1.4.
- Observed coho fry in this channel.

Other species access and use: ☐ Chum ☐ Pink ☐ Sockeye ☐ Chinook ☒ Trout

- Trout can utilize this stream.
- Observed Steelhead and their redds during the survey.

Habitat Improvements:

Enhancement opportunities:

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

☒ Aerials

☒ Sketch

☒ Maps

☐ Culvert Report

☒ Other references

☐ Spawning surveys

☐ Juvenile trapping

☐ Fishway Report

UPSTREAM DIPICTED
ON SEPARATE MAP

14.2 MILES EAST
ON 101 TO MP 206.
LEFT ON
BEAR CR. RD.

RIVER: SOL DUC

TRIB: Bear Creek - 20.0329 (3 of 15)

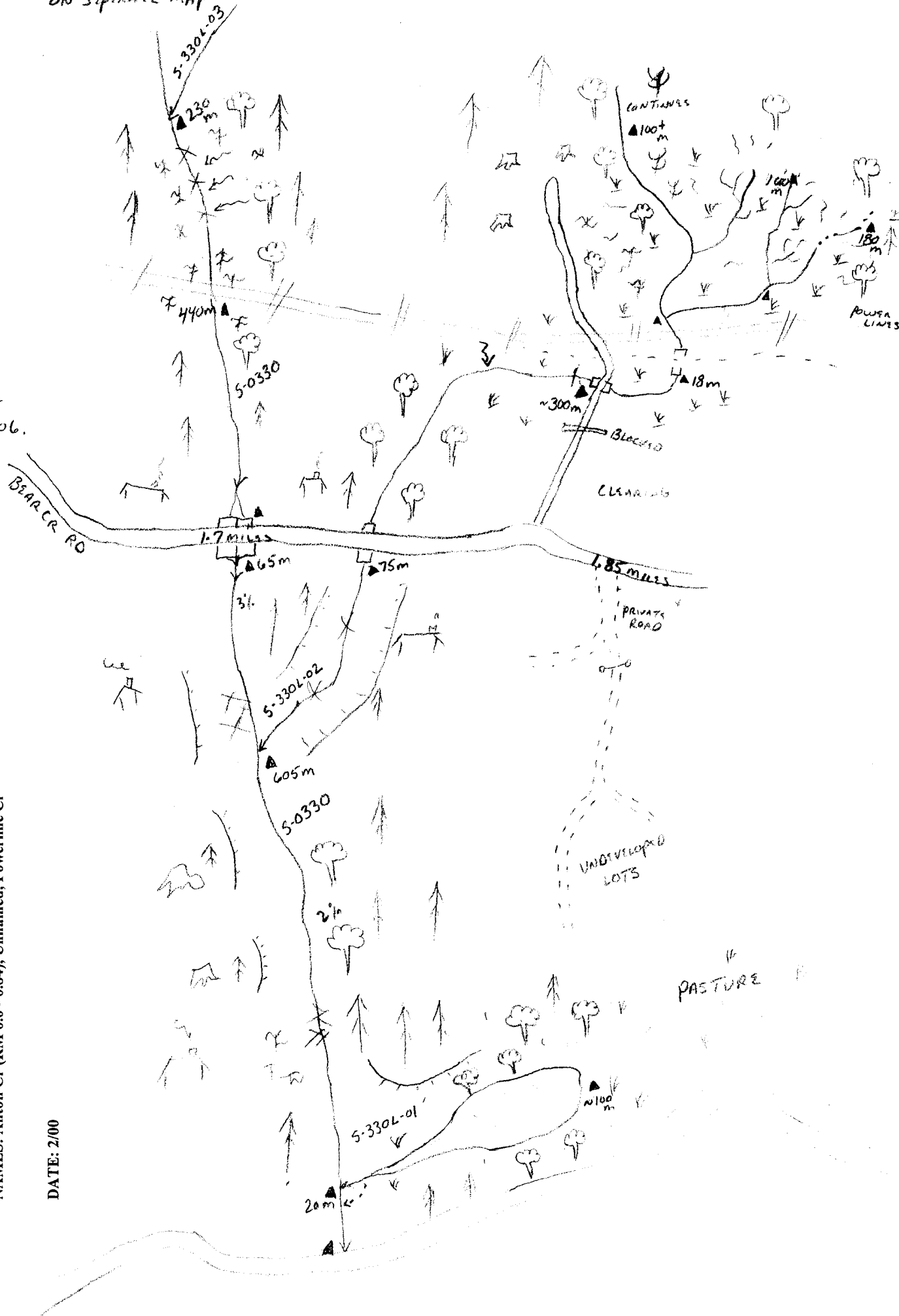
AREA: S-R6

SITE: S-0330, S-330L-01, S-330L-02,

WRIA: 20.0330, 20.0330B, 20.0330A

NAMES: Anton Cr (RM 0.0 - 0.84), Unnamed, Powerline Cr

DATE: 2/00



RIVER: SOL DUC

TRIB: Bear Creek - 20.0329 (4 of 15)
 AREA: S-R6
 SITE: S-0330, S-330L-03, S-330R-01, S-0331, S-331L-01,
 S-330R-02, S-330R-03
 WRIA: 20.0330, 20.0330C, 20.0330D, 20.0331, 20.0331C,
 20.0331D, 20.0331E
 NAMES: Anton Cr (RM 0.84 - RM 1.8), Smoking Cr,
 Unnamed, Unnamed, Unnamed
 DATE: 3/00

